

WHAT IS CLAIMED IS:

1 1. A method for executing a group of commands on a content description
2 structure, the content description structure including a plurality of relationally related nodes,
3 in a computing environment comprising the steps of:

4 determining a dependency between commands in the group of commands
5 based on the relationally related plurality of nodes;

6 assigning one or more attribute tags to the group of commands, wherein
7 assigning one or more attribute tags comprises if commands in the group of commands are
8 determined to be dependent, assigning a sequential tag to the group of commands and if
9 commands in the group of commands are determined to be independent, assigning a parallel
10 tag to the group of commands;

11 executing the group of commands according to the one or more attribute tags,
12 wherein executing the group of commands comprises if the group of commands was assigned
13 the sequential tag, executing commands in the group of commands in sequence and if the
14 group of commands was assigned the parallel tag, executing commands in the group of
15 commands in parallel.

1 2. The method of claim 1, wherein assigning one or more attribute tags to
2 the group of commands comprises assigning a start time tag to the group of commands.

1 3. The method of claim 2, wherein executing the group of commands
2 according to the one or more attribute tags comprises executing the group of commands at the
3 start time.

1 4. The method of claim 2, wherein assigning one or more attribute tags to
2 the group of commands comprises assigning a duration time to the group of commands.

1 5. The method of claim 4, wherein executing the group of commands
2 according to the one or more attribute tags comprises executing the group of commands
3 during a time period starting at the start time and lasting until the start time plus the duration
4 time.

1 6. The method of claim 1, wherein assigning one or more attribute tags to
2 the group of commands comprises assigning an authority tag to the group of commands.

1 7. The method of claim 6, wherein executing the group of commands
2 according to the one or more attribute tags comprises skipping execution of the group of
3 commands if the authority level is low.

1 8. The method of claim 6, wherein executing the group of commands
2 according to the one or more attribute tags comprises executing the group of commands if the
3 authority level is high.

1 9. The method of claim 1, wherein assigning one or more attribute tags to
2 the group of commands comprises assigning a result tag to a group of commands.

1 10. The method of claim 9, further comprising saving a result of the
2 execution of the group of commands in a new file.

1 11. The method of claim 10, wherein assigning one or more attribute tags
2 to the group of commands comprises assigning a write tag to a group of commands, wherein
3 the write tag designates the new file.

1 12. The method of claim 9, further comprising overwriting an existing file
2 with a result of the execution of the group of commands.

1 13. The method of claim 1, wherein executing the group of commands
2 comprises executing adding, editing, and deleting commands on the content description
3 structure.

1 14. A system for executing commands in a computing environment
2 comprising:

3 a content description structure, wherein the content description structure
4 includes a plurality of relationally related nodes;

5 a group of commands, wherein commands in the group of commands have a
6 dependency based on the relationally related nodes;

7 one or more attribute tags, wherein the one or more attribute tags comprise a
8 sequential tag and parallel tag;

9 an encoder system comprising logic to encode a group of commands in the
10 one or more groups of commands with the one or more attribute tags, wherein the group of
11 commands is encoded with the sequential tag if the dependency of the group of commands is

12 dependent indicating the group of commands are to be executed in sequence and the group of
13 commands is encoded with the parallel tag if the dependency of the group of commands is
14 independent and indicates the group of commands are to be executed in parallel; and

15 a decoder system comprising logic to execute the encoded group of commands
16 according to the one or more attribute tags, wherein the group of commands encoded with the
17 sequential tag are executed in sequence and the group of commands encoded with the parallel
18 tag are executed in parallel.

1 15. The system of claim 14, wherein the one or more attribute tags
2 comprise a start time tag, wherein the start time tag comprises a start time value.

1 16. The system of claim 15, wherein the encoder system encodes the group
2 of commands with the start time tag, wherein the decoder system executes the group of
3 commands at the start time value.

1 17. The system of claim 16, wherein the one or more attribute tags
2 comprise a duration tag, wherein the duration tag comprises a duration value.

1 18. The system of claim 17, wherein the encoder system encodes the group
2 of commands with the duration tag, wherein the decoder system executes the group of
3 commands during a time period defined by the start time value and the start time value plus
4 the duration value.

1 19. The system of claim 14, wherein the one or more attribute tags
2 comprise an authority level tag, wherein the authority level tag comprises an authority level
3 value.

1 20. The system of claim 19, wherein the encoder system encodes the group
2 of commands with the authority level tag.

1 21. The system of claim 20, wherein the decoder system does not execute
2 the group of commands if the authority level value is low.

1 22. The system of claim 20, wherein the decoder system executes the
2 group of commands if the authority level value is high.

1 23. The system of claim 14, wherein the one or more attribute tags
2 comprise a result tag, wherein the result tag comprises a new file value and overwrite value.

1 24. The system of claim 23, wherein the encoder system encodes the group
2 of commands with the result tag.

1 25. The system of claim 24, wherein the decoder system saves a result of
2 the executed group of commands in a new file if the result tag has the new file value.

1 26. The system of claim 25, wherein the new file is a .xml file.

1 27. The system of claim 25, wherein the new file is a .xsd file.

1 28. The system of claim 24, wherein the decoder system overwrites an
2 existing file with a result of the executed group of commands if the result tag has the
3 overwrite value.

1 29. The system of claim 14, wherein the content description structure is a
2 tree structure.

1 30. The system of claim 14, wherein the relationally related nodes
2 comprise parent and children nodes.

1 31. A schema for synchronizing an execution of a group of commands in a
2 MPEG computing environment comprising:

3 an execution order attribute, wherein the execution order attribute comprises a
4 sequential tag that indicates commands in the group of commands are to be executed in
5 sequence and a parallel tag that indicates commands in the group of commands are to be
6 executed in parallel;

7 an authority level attribute that indicates a priority level for the execution of
8 the group of commands;

9 a result attribute, wherein the result attribute comprises a new file value that
10 indicates a new file is to be created for a result of the execution of the group of commands
11 and an overwrite value that indicates the result for the execution of the group of commands is
12 to be overwritten over an existing file; and

13 a write attribute that indicates where the new file result of the execution of the
14 groups of commands is stored.

1 32. The schema of claim 31, further comprising an execution validity
2 attribute, wherein the execution validity attribute comprises a start time attribute that
3 indicates a start time for valid execution of the group of commands and a duration time
4 attribute that indicates a duration time for valid execution of the group of commands.